



Threshold values

David G FARRER to: Elizabeth Allen, bermanf, Bradley A
Knotts, Brian BOLING, DonaldM Brown,
Dale L Mitchell, Dale Mitchel, Scott

08/08/2011 04:52 PM

[attachment "Threshold Values.xls" deleted by Scott Downey/R10/USEPA/US]
Technical/Protocol Folks!

I've attached a spreadsheet with all of the analytes for all media (urine, water, and food). Yellow-highlighted analytes are the ones ODF/ODA has identified as those we can expect to be in reasonably current use in the area. Only the yellow-highlighted analytes will be measured in food samples. Only the yellow-highlighted analytes will be used for decision-making purposes about subsequent phases of the investigation.

The purpose of this spreadsheet is to organize the analytes and display the health-based threshold values to which results will be compared. Many thanks to Elizabeth Allen for her review and approval of these threshold values so far.

Threshold values have only been developed for water and urine to this point. This is because we need to know which types of food will be sampled before we can derive threshold values for food (i.e. blueberries vs. milk). We are in the midst of gathering that information through the ongoing recruitment process.

Only 2,4-D and atrazine (and atrazine's metabolites) will be measured in urine. This is because of methodological limitations and lack of threshold values with which to compare results.

The most extensive analyte list is for water. This is because DEQ's lab will be analyzing water samples, and they have already developed an extensive analysis suite for pesticides in water.

You'll notice some analytes for which no threshold values are listed. This is because of a lack of toxicity information. If anyone knows about additional toxicity information for any of these contaminants (reference doses, tolerable daily intakes, acceptable daily intakes, etc.) please let me know.

If you scroll to the bottom of the table, you'll see a key that explains the acronyms in the "Source of Comparison Value" column. The second tab/worksheet shows the equations used to derive the different types of threshold values.

My goal is to polish up this table (once we have values for food) and send it out to the community well before we start analyzing samples. I want to make it clear to the community that the threshold values were developed before we had even seen any data resulting from the investigation.

So, comments on threshold values, clarity of presentation, suggestions of toxicity information for those analytes without threshold values are all welcome.

Thank you,

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Re: Highway 36 update 

Kay Morrison to: Sujata JOSHI

08/08/2011 05:41 PM

Cc: Scott Downey, Linda Liu, Elizabeth Allen, Sheila Fleming

History: This message has been replied to.

Hi Sujata - thank you so much for sending this update. I hesitate to respond to the entire email list, so I've only included a few folks on my team.

My comment is regarding the term "Buffer" on the map. I believe it refers to the 1.5 mile area around the clear cuts, but I think "buffer" could easily be understood to be the protective space between a pesticide application and a salmon bearing water body. If I'm correct, I strongly encourage you to use a different term, such as "potential study area" or "approximate 1.5 mile radius around 2010 - 2011 clearcuts" or something that is less likely to be misunderstood.

Thanks again!

k

Kay Morrison
Community Involvement Coordinator
U.S. Environmental Protection Agency
Region 10 Seattle, Washington
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"Sujata JOSHI"

Greetings,

08/08/2011 02:36:31 PM

From: "Sujata JOSHI" <sujata.joshi@state.or.us>
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Date: 08/08/2011 02:36 PM

Subject: Highway 36 update

Greetings,

This email provides some updates for the Highway 36 investigation. Most of our activities have been focused on recruitment, communications with the community, and assisting ATSDR personnel in Atlanta with their protocol for the human biosampling aspects of this investigation.

Recruitment:

-After a few false starts, OHA has (hopefully) delineated our recruitment area. In order to meet ATSDR's requirements for an exposure investigation, we are recruiting participants who live within 1.5 miles of 2010/2011 clearcuts in/near Highway 36 in the following township ranges: 16S, 7W; 17S, 8W; and 16S, 6W. The attached map shows the three general recruitment areas (indicated by the aqua-blue boxes). We will prioritize recruitment in the Priority 1 area (centered around Triangle Lake). If we need to recruit outside of this area, we will focus on the Priority 2 area. Our hope is that we will get at least 40 participating households between these two areas - if not, we may need to move to the Priority 3 area.

-OHA will be making calls to schedule appointments over the next two weeks.

Request for spray notifications/records

-We plan to request spray notifications/records from ODA and ODF for the following township/ranges (indicated in light blue boxes on the map): 15S, 8W; 15S, 7W; 15S, 6W; 16S, 8W; 16S, 7W; 16S, 6W; 17S, 8W; 17S, 7W; 17S, 6W.

Sampling/Analysis

-ATSDR and OHA staff will be in the field to collect urine samples between Tuesday, 8/30 and Thursday, 9/1.

-OHA is coordinating with ODA/DEQ/EPA on finalizing the analyte list for environmental samples, and determining threshold values to evaluate sample results. We also are working with agencies' legal experts to answer some questions related to sampling results and confidentiality of participants.

Communication/Outreach:

-Investigation's website is up. Go to www.healthoregon.org/ehap and click on "Get more information on the exposure investigation"

-OHA is providing updates to community members (through a list-serv) approximately once a week. The next update will probably go out later this week.

Please let me know if you have any questions.

Thanks,
Sujata

[attachment "hwy36_8.8.jpg" deleted by Kay Morrison/R10/USEPA/US]